

## Table of Contents

Data Security in Cloud Storage Services <i>Mai Dahshan and Sherif Elkassass</i>	1
A Loosely-coupled Semantic Model for Diverse and Comprehensive Cloud Service Search and Retrieval <i>Daren Fang, Xiaodong Liu, and Imed Romdhani</i>	6
A Simulation Framework to Model Accountability Controls for Cloud Computing <i>Nick Papanikolaou, Thomas Rubsamen, and Christoph Reich</i>	12
Mobile Cloud and Grid Web Service in a Smart City <i>Jong Won Park, Chang Ho Yun, Hae Sun Jung, and Yong Woo Lee</i>	20
On Application Responsiveness and Storage Latency in Virtualized Environments <i>Alexander Spyridakis and Daniel Raho</i>	26
Applying a Resource-pooling Mechanism to MPLS-TP Networks to Achieve Service Agility <i>Tomoyuki Iijima, Toshiaki Suzuki, Kenichi Sakamoto, Hidenori Inouchi, and Akihiko Takase</i>	31
Analysis of Protection Options for Virtualized Infrastructures in Infrastructure as a Service Cloud <i>Ramaswamy Chandramouli</i>	37
A Centralized Architecture for Energy-Efficient Job Management in Data Centers <i>George Perreas and Petros Lampsas</i>	44
Securing the Grid using Virtualization: The ViSaG Model <i>Pierre Kuonen, Valentin Clement, and Frederic Bapst</i>	49
Challenges and Issues Within Cloud Computing Technology <i>Omar Ali and Jeffrey Soar</i>	55
Good Performance Metrics for Cloud Service Brokers <i>John O'Loughlin and Lee Gillam</i>	64
Towards Makespan Minimization Task Allocation in Data Centers <i>Kangkang Li, Ziqi Wan, Jie Wu, and Adam Blaisse</i>	70
E-Marketplace for Cloud Services <i>Claudio Giovanoli, Prasad Pulikal, and Stella Gatziau Grivas</i>	76
MuTeBench: Turning OLTP-Bench into a Multi-Tenancy Database Benchmark Framework	84

*Andreas Gobel*

Large-scale Image Processing Research Cloud 88  
*Yuzhong Yan and Lei Huang*

Hybrid Cloud Architecture for Software-as-a-Service Provider to Achieve Higher Privacy and Decrease Security Concerns about Cloud Computing 94  
*Paul Reinhold, Wolfgang Benn, Benjamin Krause, Frank Goetz, and Dirk Labudde*

An Approach for Hybrid Clouds using VISION Cloud Federation 100  
*Uwe Hohenstein, Michael C. Jaeger, Sebastian Dippl, Enver Bahar, Gil Vernik, and Elliot K. Kolodner*

High Performance Computing in a Cloud Using OpenStack 108  
*Roman Ledyayev and Harald Richter*

Performance Comparison of KVM, VMware and XenServer using a Large Telecommunication Application 114  
*Sogand Shirinbab, Lars Lundberg, and Dragos Ilie*

Deployment of Secure Collaborative Softwares as a Service in a Private Cloud to a Software Factory 123  
*Guilherme Vergara, Edna Canedo, and Sergio Freitas*